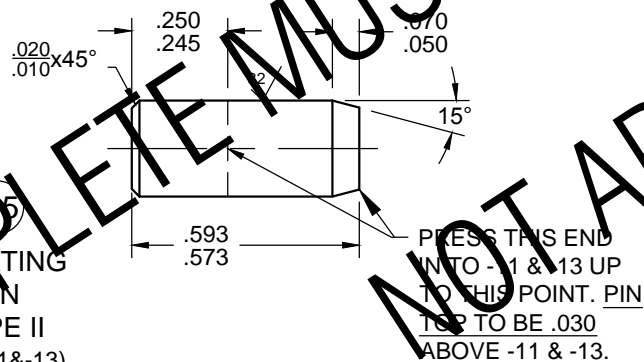
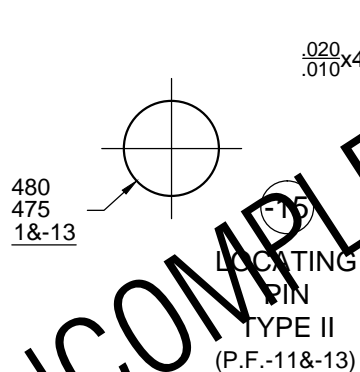
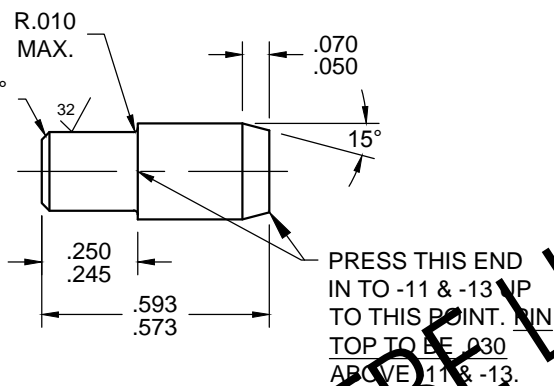
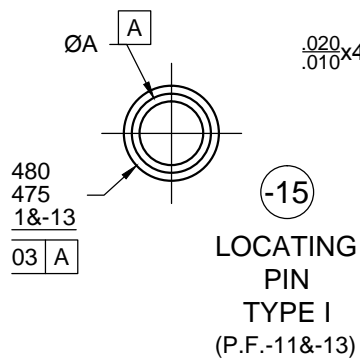


5°



UNDER REVIEW

URF 19-1112 19.10.30 (VM)

TOOL #	ØA +.000 -.002	TYPE	MATERIAL
37	.435	III	1018 RND. BAR
38	.498		
39	.560		
40	.623		

RB RED BARN MACHINE	
TITLE TRI-ROLLER SWAGING TOOL; LOCATING PIN	
DWG NO.	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS .XXX ± .005	FRACTIONS ± 1/32
XX ± .01	ANGLES ± 5°
DRAWN BY: PERRITT	
APPROVED	
HEAT TREAT	
FINISH SPEC: BLACK OXIDE	


COMPLETE MUSTBE LIKE KST1000-1020 PRINT

NOT APPROVED FOR PRODUCTION

UNDER REVIEW

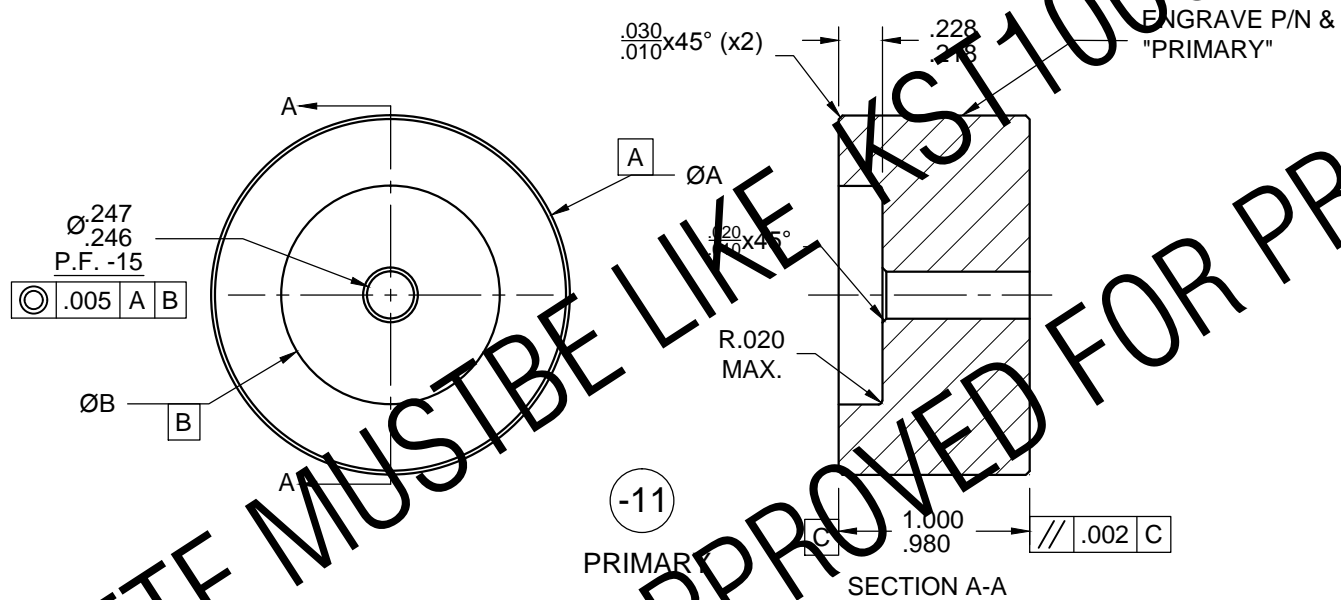
URF 19-1112 19.10.30 (VM)

URF 19-1112 19.10.30 (VM)

		RED BARN MACHINE	
TITLE TRI-ROLLER SWAGING TOOL; SECONDARY			
DWG NO.			REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: PERRITT	
TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1		APPROVED	
FRACTIONS ± 1/32 ANGLES ± 5°		HEAT TREAT	
		FINISH SPEC BLACK OXIDE	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES		USED ON MODEL	

INCOMPLETE MUST BE LIKE KST1000-1020 PRINT, NOT APPROVED FOR PRODUCTION

REVISIONS				
REV	DESCRIPTION	DATE	INITIALS	APPROVED
-	---	-	-	-



UNDER REVIEW

URF 19-1112 19.10.30 (VM)

TOOL #	ØA +0.000 -0.020	ØB +0.000 -0.005	MATERIAL
C-07	1.290	.860	4140 Q&T RND. BAR
C-08	1.375	.945	
C-09	1.532	1.056	
C-10	1.625	1.167	

RED BARN MACHINE	
TITLE TRI-ROLLER SWAGING TOOL; PRIMARY	
DWG NO.	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: PERRITT	
APPROVED	
HEAT TREAT	
FINISH SPEC	
BLACK OXIDE	
USED ON MODEL	

COMPLETE MUSTBE LIKE KST1000-1020 PRINT NOT APPROVED FOR PRODUCTION

REVISIONS			
REV	DESCRIPTION	DATE	INITIALS/APPROVED
-	--	-	-

Technical drawing of a mechanical part, likely a pin or shaft, showing dimensions and features. The drawing includes a side view and a cross-sectional view.

**Dimensions:**

- Overall length: 1.015 (nominal), .985 (minimum)
- Distance from left end to center of hole: .322 (nominal), .302 (minimum)
- Radius at left end: R.015 MAX.
- Radius at center hole: R.010 MAX.
- Distance from center hole to right end: 0.072 (nominal), 0.052 (minimum)
- Left end diameter: ØA
- Center hole diameter: ØB
- Right end diameter: .003 A
- Left end chamfer: .020 x 45° (nominal), .010 (minimum)

**Features:**

- Feature A: Chamfer at left end.
- Feature B: Hole at center.
- Feature C: Hole at right end.

**Notes:**

- 9 PIN


**Approval:**

UNDER REVIEW

URF 19-1112 19.10.30 (VM)

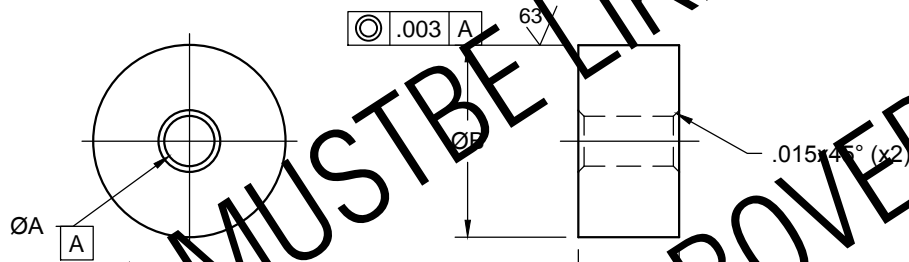
RED BARN MACHINE

URF 19-1112 19.10.30 (VM)

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> TRI-ROLLER SWAGING TOOL; PIN	
<b>DWG NO.</b> -- --	<b>REV</b>
<b>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</b>  <b>TOLERANCES ON:</b> DECIMALS .XXX ± .005 .XX ± .01 .X ± .1  FRACTIONS ± 1/32 ANGLES ± 5°	<b>DRAWN BY:</b> PERRITT  <b>APPROVED</b>  HEAT TREAT FINISH <b>BLACK OXIDE</b>  USED ON MODEL
<b>UNLESS OTHERWISE SPECIFIED</b> 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	

INCOMPLETE MUST BE LIKE KST1000-1020 PRINT  
NOT APPROVED FOR PRODUCTION

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
--	--			



-7  
GUIDE

UNDER REVIEW

URF 19-1112 19.10.30 (VM)

UNDER REVIEW

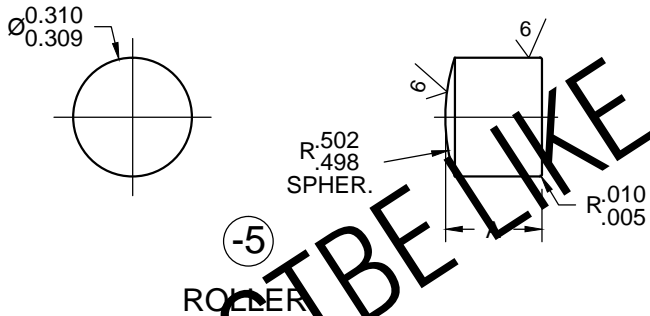
URF 19-1112 19.10.30 (VM)

TOOL #	ØA +.001 -.001	ØB +.000 -.002	ØC +.000 -.010	MATERIAL	
	.131	.435	.250	BRASS	RND. BAR
		.498			
		.560	.265		
		.623			

RED BARN MACHINE	
TITLE TRI-ROLLER SWAGING TOOL; GUIDE	
DWG NO.	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
DRAWN BY: PERRITT	
APPROVED	
HEAT TREAT	
FINISH SPEC	
USED ON MODEL	

INCOMPLETE MUST BE LIKE KST1000-1020 PRINT  
NOT APPROVED FOR PRODUCTION

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
--	--			



UNDER REVIEW

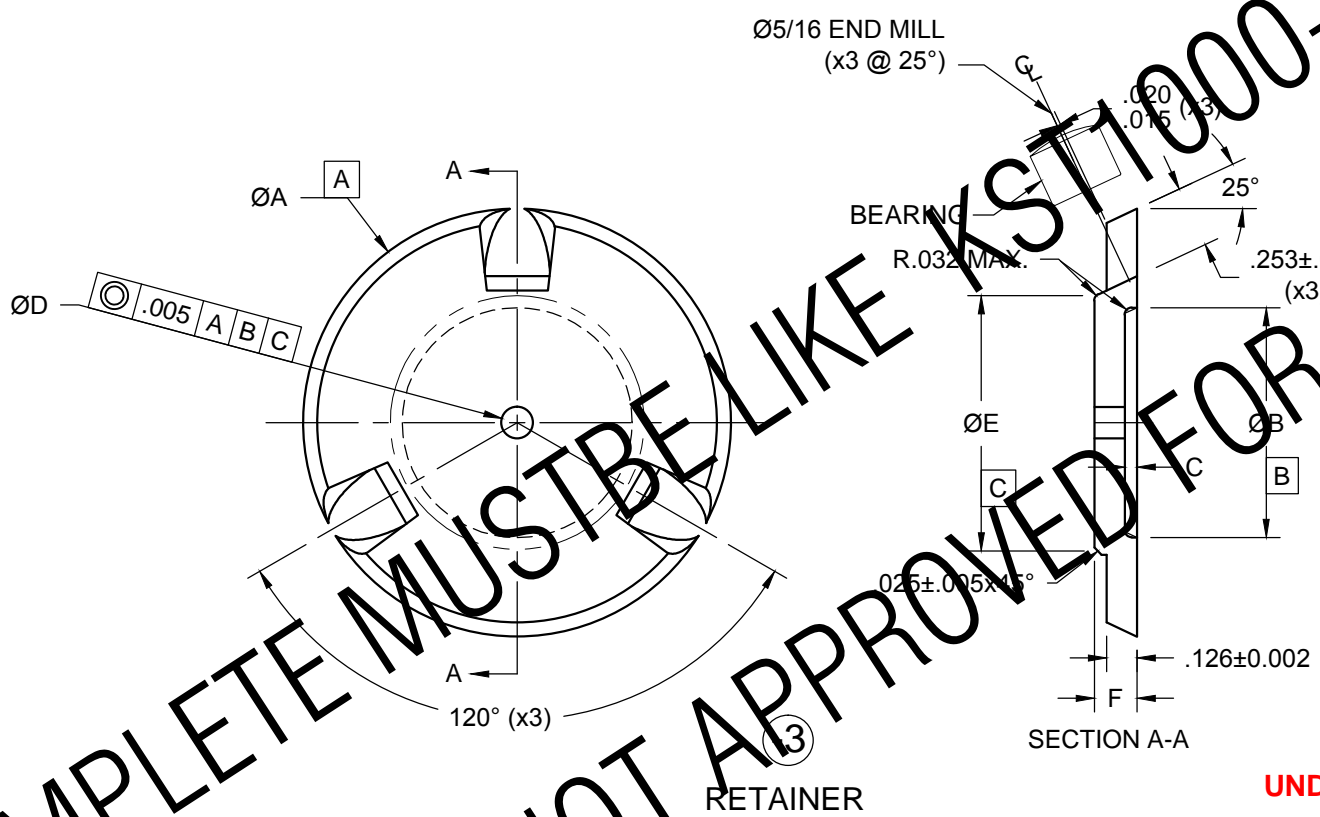
URF 19-1112 19.10.30 (VM)

TOOL	ØA +.001 -.001	MATERIAL
	.251	0-1 DRILL ROD

RB RED BARN MACHINE	
TITLE TRI-ROLLER SWAGING TOOL; ROLLER	
DWG NO. -- --	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	FRACTIONS ± 1/32
.XXX ± .005	ANGLES ± .5°
.XX ± .01	
.X ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES 015 x 45° PR 015 R	
DRAWN BY: PERRITT	
APPROVED	
RC 55-60	
HEAT TREAT	
FINISH SPEC	
USED ON MODEL	

COMPLETE MUST BE LIKE KST1000-1020 PRINT NOT APPROVED FOR PRODUCTION

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
---	---	---	---	---



NO.	TOOL #	F +.010 -.010	ØE +.002 -.000	ØD +.004 -.001	ØC +.020 -.000	ØB +.010 -.005	ØA +.002 -.002	FOR P.D.	MATERIAL
JGC-07				.136	.030	.690	1.414	.993	BRASS RND. BAR
JGC-08					.035	.700	1.514	1.093	
JGC-09					.040	.825	1.639	1.218	
JGC-10					.050	.950	1.764	1.343	

RED BARN MACHINE	
TITLE TRI-ROLLER SWAGING TOOL; RETAINER	
DWG NO. ---	REV ---
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	
FRACTIONS ± 1/32 ANGLES ± .5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES 0.15 x 45° PR .015 R	
DRAWN BY: PERRITT	
APPROVED	
HEAT TREAT	
FINISH SPEC	
USED ON MODEL	

INCOMPLETE - MUST BE LIKE YST1000-1020 PRINT

NOT APPROVED FOR PRODUCTION

NOT APPROVED FOR PRODUCTION

REVISIONS

REV	DESCRIPTION	DATE	INITIAL	APPROVED
--	--	--	--	--

ENGRAVE P/N  
CHAR. HT. .110  
.030x45° (x3)

ØA  
A  
ØB  
ØD  
ØC  
ØE  
ØG  
A  
BASE  
-1

8-32 UNC THRD  
ENGTH 3/8 MIN.  
-BORE Ø.187  
EPH OPTIONAL

750  
.720 (x2)  
.375  
.153  
R.015  
.015  
R.030  
1.000  
.940  
500  
.80  
25°  
8°  
25°  
SECTION A-A

UNDER REVIEW

URF 19-1112 19.10.30 (VM)

NO.	TOOL #	ØG +.000 -.001	ØF +.030 -.000	ØE +.002 -.000	ØD P.D. REF.	ØC +.002 -.000	ØB +.002 -.000	ØA +.000 -.010	MATERIAL
JGC-07		.131		.601	.993	1.187	1.329	1.450	0-1 DRILL ROD
JGC-08				.701	1.093	1.287	1.429	1.550	
JGC-09				.826	1.218	1.412	1.554	1.675	
JGC-10				.951	1.343	1.537	1.679	1.800	

RED BARN MACHINE

TITLE  
TRI-ROLLER SWAGING TOOL; BASE

DWG NO. -- -- REV

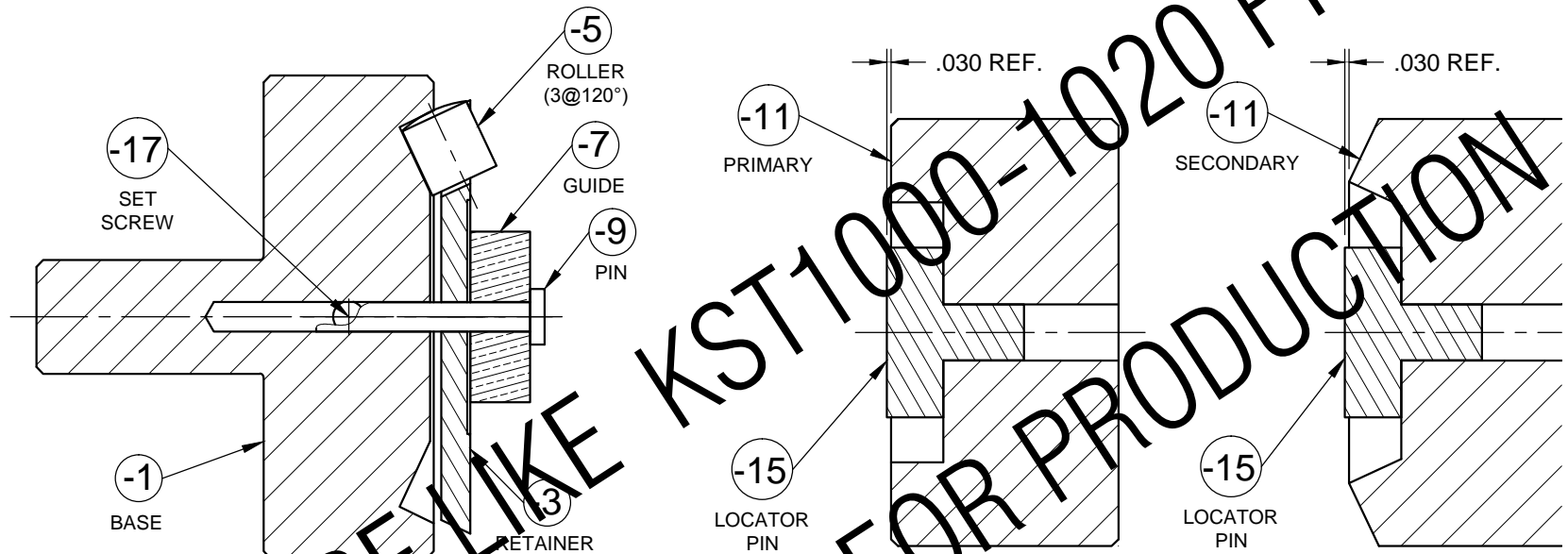
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON:  
DECIMALS  
.XXX ± .005  
.XX ± .01  
.X ± .1  
FRACTIONS ± 1/32  
ANGLES ± 5°

UNLESS OTHERWISE SPECIFIED  
1. BREAK ALL SHARP EDGES  
0.15 x 45° PR .015 R

DRAWN BY: PERRITT  
APPROVED  
HEAT TREAT RC 55-60  
FINISH BLACK OXIDE  
SPEC  
USED ON MODEL



REVISIONS		
REV	DESCRIPTION	
--	--	



#### NOTES

1. -1 RACE SURFACE MUST HAVE SMOOTH APPEARANCE FREE FORM MACHINING MARKS AND GROOVES.
2. -5 ROLLERS MUST TURN FREELY IN -3 RETAINER ROCKETS.
3. -5 ROLLERS & -3 RETAINER MUST TURN FREELY WHEN TOOL IS COMPLETELY ASSEMBLED.
4. FLAT END OF ROLLERS MUST FACE TOWARDS THE CENTER OF THE TOOL WHEN ASSEMBLED.

**UNDER REVIEW**

URF 19-1112 19.10.30 (VM)

ASSY QTY	B/O	PART #	UNIT QTY	DESCRIPTION	MAT.	B/O INFORMATION OR SPECIFICATIONS	Pg.
		-1	1	BASE		SEE CHART	2
		-3	1	RETAINER		SEE CHART	3
		-5	3	ROLLER		SEE CHART	4
		-7	1	GUIDE		SEE CHART	5
		-9	1	PIN		SEE CHART	6
		-11	1	PRIMARY		SEE CHART	7
		-13	1	SECONDARY		SEE CHART	8
		-15	2	LOCATING PIN		SEE CHART	9
B/O		-17	1	SOCKET HEAD SET SCREW	PLAIN	#8-32 x 1/4	N/S

**RED BARN MACH**

TITLE TRI-ROLLER SWAGING TOOL

DWG NO. --


UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON:  
DECIMALS .XXX ± .005  
.XX ± .01  
.X ± .1  
FRACTIONS ± 1/32  
ANGLES ± 5°  
DRAWN BY:  
APPROVED  
HEAT TREAT LIST  
FINISH LIST  
SPEC USED

UNLESS OTHERWISE SPECIFIED  
1. BREAK ALL SHARP EDGES  
.015 x 45° PR .015 R  
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

SCALE NTS DATE 12-14-07 SHEET

[illegible]

URF 19-1112 19.10.30 (VM)

 <span>RED BARN MACHINE</span>	
TITLE <span style="float: right;">--</span>	
DWG NO. <span style="float: right;">--</span>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: <b>PERRITT</b> APPROVED HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL   
SCALE <b>NTS</b>	DATE <b>8-15-07</b>
SHEET <b>1 of 1</b>	


NOT APPROVED FOR PRODUCTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

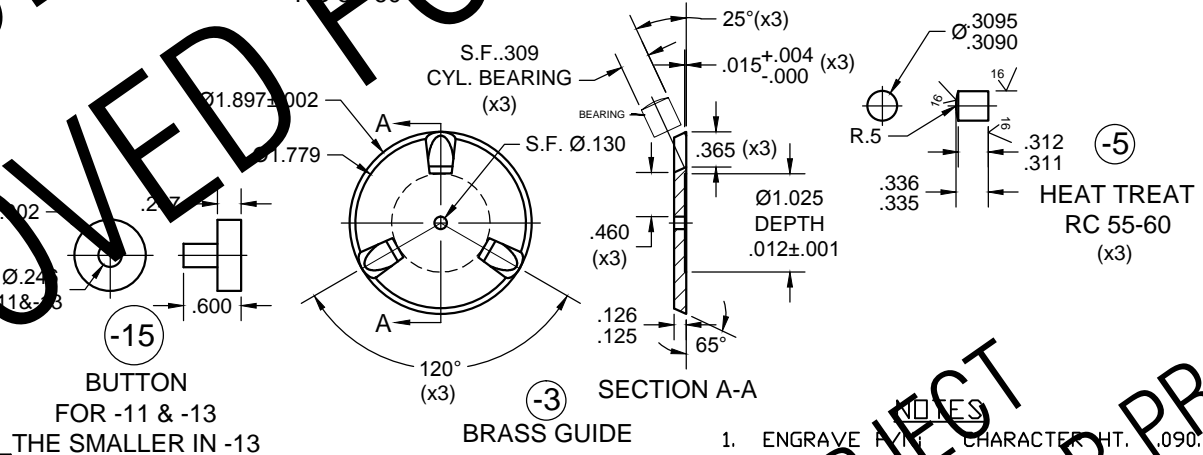
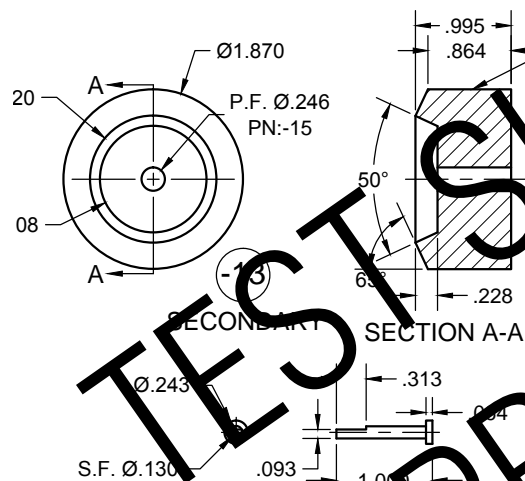
UNDER REVIEW

URF 19-1112 19.10.30 (VM)

	PART #	QTY	DESCRIPTION
	-1	1	--

DRAWN BY: PERRITT	 RED BARN MACHINE		
CHECKED			
HEAT TREAT FINISH SPEC			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5° .X ± .1			
USED ON MODEL ?	TITLE	DWG NO.	REV.
		PART #	
	SCALE NTS	DATE 1-28-06	SHEET 1 of 1
	UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		

ED



	USED ON MODEL
	?

		RED BARN MACHINE	
		SINKING TOOLS	
DWG NO. RB ST1016			REV
SCALE	UNITS	DATE	SHEET
1" = 1'	FTS	1-24-07	1 of 1